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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/614,166	07/08/2003	Won Tae Kim	YHK-0107	6504
34610	7590	04/07/2005	EXAMINER	
FLESHNER & KIM, LLP			DINH, TRINH VO	
P.O. BOX 221200			ART UNIT	
CHANTILLY, VA 20153			PAPER NUMBER	
			2821	

DATE MAILED: 04/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/614,166

Applicant(s)

KIM ET AL.

Examiner

Trinh Vo Dinh

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on amendment filed 02/28/05.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08 July 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

### **DETAILED ACTION**

This is a response to amendment filed 02/28/05. The objection of claim 6 has been withdrawn in view of the amendment. However, the amended claims 1-10 and newly added claims 11-15 necessitate a new ground of rejection as discussed below.

#### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 4-6, 9-10 drawn to the apparatus and the method claims 1-3, 7-8 and 11-15 are rejected under 35 U.S.C. 102(e) as being anticipated by Kang (US 6,525,701 B1 of record) in view of Moon (US Patent 6,384,802 B1).

With respect to claim 4, Kang discloses a plasma display panel, in Figs. 3 or 9, a driving apparatus for a plasma display panel (abstract) having an active area (dotted line area in Fig. 3 or abstract) for displaying picture and a non-display area (col. 2, line 66 to col. 3, line 9, or col. 7, lines 35-55) being adjacent at the upper and lower sides of the active area (Figs. 3 or 9), at least partial ones electrode (Cm, Cn) at the active area (dotted line in drawings 3 or 9) and at least partial ones (Cm-1, Cn+1 in Fig. 3, or Cm-1 and more in col. 7, lines 50-55) of dummy electrodes (Cm-1, Cn+1, Sm-1, Sn+1) positioned within the non-display area (col. 7, lines 35-55).

However, Kang does not suggest the driver for driving the scan electrodes and the dummy electrodes with an identical signal. Moon discloses a driver (42C in Fig. 9, or col. 15, lines 20-30) for driving scan electrodes (Y3, Y6) and dummy electrode (Yd) with an identical signal (Fig. 20 shows waveform of driving signal applied to scanning electrodes Y3, Y6 and the dummy electrode Yd are identical). It would have been obvious to one having ordinary skill in the art at the time the invention was made to drive Kang's scan and dummy electrodes employing the scanning driver with an identical signal as taught by Moon. Doing so would improve brightness and discharge efficiency of the PDP and also reduce the manufacturing cost.

With respect to claim 5, Moon further discloses, in Figs. 19-20, a sustain driver (42C) for driving the dummy electrodes (Yd) and sustain electrodes (Y3, Y6) during at least partial period of an initialization period for initializing cells and an address period for selecting the cells (col. 14 line 59 to col. 15 line 30).

With respect to claim 6, Moon further discloses a scan driver (42C) for applying an initializing waveform (col. 14, lines 59+), for initializing entire cells to at least partial ones (Yd) of the dummy electrodes at the non-display area and the scan electrodes (Y3, Y6) at the active area during initializing period and for applying the direct current voltage (col. 15, lines 24-30 or Fig. 20) to the at least partial ones of the dummy electrodes (Yd) at the non-display area and the scan electrodes (Y3, Y6) at the active area during the address period (col. 14, lines 59+).

With respect to claims 9-10, Moon furthermore discloses, in Fig. 20 and col. 14 line 59 to col. 15 line 30, the at least partial ones of the scan electrodes/sustain electrode (Y3, Y6) and the at least ones of the dummy electrodes (Yd) receiving similar signals during part of an

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initialization period and receive a similar direct current voltage during at least part of an address period.

With respect to claims 1-3, 7-8, 11-13, the apparatus discussed above would perform the claimed method.

With respect to claims 14-15, Moon discloses a third signal is applying to sustain electrodes of the PDP and a fourth signal being applying to dummy electrodes (driver 42C drives sustaining electrodes Y3, Y6 and dummy electrode Yd with signals as shown in Fig. 20) during part of an initialization period and during part of an address period (col. 14 line 59 to col. 15 line 30), and signals including a direct voltage (col. 15 lines 23-30) applied during part of the initialization period and part of the address period.

### ***Conclusion***

3. Applicant's amendment necessitated the new ground of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

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***Inquiry***

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Trinh Vo Dinh whose telephone number is (571) 272-1821. The examiner can normally be reached on Monday to Friday from 9:30AM to 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong, can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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*Trinh Vo Dinh  
April 06, 2005*